

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of the claims in the application:

**LISTING OF CLAIMS:**

Claim 1 (currently amended): A preparation comprising which contains a cell extract for cell-free protein synthesis prepared by substantially excluding an endosperm portion of said cell extract, thereby substantially excluding the systems involving involved in inhibiting the cell extract's protein synthesis reactions reaction of said own protein and for characterized in that an endosperm which contaminates an extract of embryo, is completely removed therefrom.

Claim 2 (currently amended): A preparation which contains cell extract for cell-free protein synthesis according to Claim 1, wherein substantially excluding said the method to exclude systems involved in inhibiting the cell extract's protein synthesis reactions involving in the inhibition of reaction of its own protein synthesis is characterized by comprises treating said cell extract of embryo using with a nonionic surfactant as a solvent.

Claim 3 (currently amended): A preparation which contains cell extract for cell-free protein synthesis according to Claim 2, wherein the method to treat extract of embryo using nonionic surfactant is characterized cell extract is further treated by using an acoustic wave in addition to said surfactant to continue until washing do not become turbid.

Claim 4 (currently amended): A preparation which contains cell extract for cell-free protein synthesis according to Claim 1, wherein the inhibition inhibiting of said systems involved in

inhibiting the cell extract's protein synthesis reactions of the own reaction of protein synthesis  
excluding the systems serves as controlling deadenination to control deactivation of ribosomes  
present in said cell extract.

Claim 5 (currently amended): A preparation which contains cell extract for cell-free protein synthesis according to Claim 1, wherein a substance is present added which controls deadenination deadenylation of ribosomes characterized by excluding systems involving in the inhibition of its own reaction of protein synthesis.

Claim 6 (currently amended): A preparation which contains cell extract for cell-free protein synthesis according to Claim 1, wherein the cell extract is from an embryo and said embryo is treated by adding nonionic surfactant and a substance controlling deadenination deadenylation of ribosome by excluding systems involving the inhibition of protein systhesis.

Claim 7 (currently amended): A preparation which contains cell extract for cell-free protein synthesis according to claim 1, characterized by formulating a substance containing cell extract for cell free protein synthesis into a wherein said preparation which can be stored in room temperature and which maintains biological functions of said cell extract.

Claim 8 (previously presented): A preparation containing cell extract for cell-free protein synthesis according to Claim 7, wherein the preparation is in dried form.

Claim 9 (previously presented): A preparation containing cell extract for cell-free protein

synthesis according to Claim 8, wherein the preparation is formulated by freeze-drying.

Claim 10 (currently amended): A method for cell-free protein synthesis in a system which is capable of recovering the synthesized product protein, ~~characterized in that said system uses said method comprising utilizing~~ the preparation of claim 1 containing cell-extract for cell-free protein synthesis, a reaction vessel used in the system is prepared with a carrier capable of molecular sieving, a material substance pertaining to the system is developed with the carrier as a moving phase, and during the development the reaction of cell-free protein synthesis is carried out, thereby obtaining the product.

Claim 11 (currently amended): A method for cell-free protein synthesis in a system which is capable of recovering the synthesized product protein, ~~characterized in that said system uses said method comprising utilizing~~ the preparation of claim 1 containing cell-extract for cell-free protein synthesis, ~~the~~ a reaction vessel used in the system is prepared by dialysis, ~~the~~ a material substance pertaining to the cell-free protein synthesis system and the synthesized product protein of the cell-free protein synthesis reaction are separated through dialysis membrane, thereby obtaining the product.

Claim 12 (withdrawn) The means for cell-free protein synthesis according to claim 10, wherein the synthesis is continuous, and implements are selected from addition, storage, exchange and discharge, regarding a factor chosen from at least mRNA, a template for synthesis reaction, enzyme for energy recycling system, substrate, and energy source.

Claim 13 (currently amended): A preparation containing cell-extract for cell-free protein synthesis, ~~comprising characterized in that the preparation contains an extract of wheat embryo obtained after subjecting a treatment including a process for washing the wheat embryo with nonionic surfactant to completely remove any endosperm contaminants from the wheat embryo, that a-deadenylation deadenylation rate of the wheat extract is 1% or lower, the dry preparation of the wheat embryo extract maintains stability under room temperature; and that in a continuous cell-free protein synthesis involving a replenishment of the substrate and others other substances for protein synthesis using said wheat extract, the synthesis shows constant performance even in 24<sup>th</sup> hour after starting the synthesis and shows at least 1 mg/ml or higher in synthesis level in said 24<sup>th</sup> hour.~~

Claim 14 (withdrawn) The means for continuous cell-free protein synthesis according to Claim 12, wherein an apparatus comprises a structure including an impregnation vessel and a lid mounted to hermetically seal the vessel, and supports a channel with inlet to introduce into the apparatus substrate and/or energy source and outlet leading to chamber for outer solution for dialysis in impregnation vessel, a channel with inlet existing in the solution chamber in impregnation vessel as a measure to discharge metabolite, in outer dialysis solution and outlet leading to outside of the apparatus, and inlet to introduce mRNA and/or enzyme for energy recycling system and a medium having a function of dialysis membrane existing in a solution chamber for outer solution for dialysis in the impregnation vessel.

Claim 15 (currently amended): A preparation which contains cell extract for cell-free protein synthesis according to claim 2, wherein substantially excluding said systems involved in

inhibiting the cell extract's protein synthesis reactions the inhibition of the own reaction of protein synthesis excluding the systems serves to control as controlling deadenination deadenylation of ribosome.

Claim 16 (currently amended): A preparation which contains cell extract for cell-free protein synthesis according to claim 3, wherein substantially excluding said systems involved in inhibiting the cell extract's protein synthesis reactions the inhibition of the own reaction of protein synthesis excluding the systems serves to control as controlling deadenination deadenylation of ribosome.

Claim 17 (currently amended): A preparation which contains cell extract for cell-free protein synthesis according to claim 2, wherein said characterized by formulating a substance containing cell extract for cell-free protein synthesis into a preparation which can be stored in room temperature and which maintains biological functions of said cell extract.

Claim 18 (currently amended): A preparation which contains cell extract for cell-free protein synthesis according to claim 3, characterized by formulating a substance containing cell extract for cell-free protein synthesis into a wherein said preparation which can be stored in room temperature and which maintains biological functions of said cell extract.

Claim 19 (currently amended): A preparation which contains cell extract for cell-free protein synthesis according to claim 1 [[4]], further comprising a synthesized substrate, amino acid, an energy source, a surfactant, an ionic compound, or combinations thereof characterized by

~~formulating a substance containing cell extract for cell-free protein synthesis into a~~ wherein said preparation ~~which~~ can be stored in room temperature and which maintains biological functions of said cell extract.

Claim 20 (currently amended): A preparation which contains cell extract for cell-free protein synthesis according to claim 5, ~~characterized by formulating a substance containing cell extract for cell-free protein synthesis into a~~ wherein said preparation ~~which~~ can be stored in room temperature and which maintains biological functions of said cell extract.

Claim 21 (currently amended): A preparation which contains cell extract for cell-free protein synthesis according to claim 6, ~~characterized by formulating a substance containing cell extract for cell-free protein synthesis into a~~ wherein said preparation ~~which~~ can be stored in room temperature and which maintains biological functions of said cell extract.

Claim 22 (withdrawn): The means for cell-free protein synthesis according to claim 11, wherein the synthesis is continuous, and implements are selected from addition, storage, exchange and discharge, regarding a factor chosen from at least mRNA, a template for synthesis reaction, enzyme for energy recycling system, substrate, and energy source.

Claim 23 (previously presented): A method of synthesizing protein using the preparation prepared according to claim 1.

Claim 24 (previously presented): A method of synthesizing protein using the preparation

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prepared according to claim 2.

Claim 25 (previously presented): A method of synthesizing protein using the preparation prepared according to claim 3.

Claim 26 (previously presented): A method of synthesizing protein using the preparation prepared according to claim 4.

Claim 27 (previously presented): A method of synthesizing protein using the preparation prepared according to claim 5.

Claim 28 (previously presented): A method of synthesizing protein using the preparation prepared according to claim 6.

Claim 29 (previously presented): A method of synthesizing protein using the preparation prepared according to claim 13.

Claim 30 (withdrawn): A protein synthesized by the method of claim 23.